

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/050431

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04J3/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 6 430 201 B1 (KONG THOMAS ET AL) 6 August 2002 (2002-08-06) figures 1-7 column 1, lines 27-44 column 2, lines 59-67 column 3, lines 1-25 column 4, lines 44-51 column 5, lines 55-67 column 6, lines 4-17	5, 6, 8 1-4, 7
Y A	US 6 359 857 B1 (AHMAD KHALID ET AL) 19 March 2002 (2002-03-19) figures 1, 2, 4, 7 column 1, lines 40-67 column 2, lines 1, 2 column 3, lines 1-9 column 8, lines 47-65	5, 6, 8 1-4, 7

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

2 August 2004

Date of mailing of the international search report

06/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Mircescu, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/050431

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2002/024699 A1 (TAKATORI MASAHIRO ET AL) 28 February 2002 (2002-02-28)</p> <p>figures 1,2,11,12</p> <p>page 1, paragraph 8-13</p> <p>page 4, paragraph 91</p> <p>page 5, paragraph 101</p> <p>page 7, paragraph 107-122</p> <p>-----</p>	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050431

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6430201	B1	06-08-2002	AU	2107801 A	03-07-2001
			WO	0147159 A1	28-06-2001
US 6359857	B1	19-03-2002	WO	9911090 A1	04-03-1999
			DE	69725624 D1	20-11-2003
			DE	69725624 T2	29-04-2004
			EP	1010346 A1	21-06-2000
			JP	2001514478 T	11-09-2001
US 2002024699	A1	28-02-2002	JP	5292040 A	05-11-1993
			US	6266169 B1	24-07-2001
			US	6018405 A	25-01-2000
			US	5875046 A	23-02-1999
			US	5812289 A	22-09-1998
			US	5555477 A	10-09-1996
			US	5500756 A	19-03-1996
			US	5671074 A	23-09-1997
			US	5739932 A	14-04-1998
			US	5861972 A	19-01-1999
			US	6005699 A	21-12-1999